

AI Software Engineering Bootcamp

A structured, practical software engineering program equips you to plan, construct, and release applications powered by AI.

Group classes in NYC and onsite training is available for this course.
For more information, email corporate@nobledesktop.com or visit:
<https://training-nyc.com/certificates/ai-software-engineering-bootcamp>



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Course Outline

This package includes these courses

- AI Coding Bootcamp with Claude Code (0 hours)
- AI Coding for Product and UX (0 hours)
- AI Coding for Security (0 hours)
- AI Coding for Systems and Architecture (0 hours)
- AI Coding Capstone (0 hours)

AI Coding Bootcamp with Claude Code

- Handle genuine development tasks and multi-step coding workflows in Claude Code with confidence
- Guide AI well through context setting, Plan Mode, review, and recovery techniques
- Use Git and GitHub to handle version control, branching, pull requests, and code review
- Grasp the fundamentals of current web development, among them HTML, CSS, JavaScript, APIs, and frontend and backend concepts
- Assemble full-stack applications from Next.js, databases, authentication, and external APIs
- Test, debug, and secure production-ready applications, then ship them to the live web

AI Coding for Product and UX

- Work with current programming languages while following type-safe development practices
- Model structured data and build the relational databases that hold it
- Create APIs, document them, and handle versioning and errors correctly
- Carry out research into user experience and put design systems to use
- Express product requirements in the form of technical specifications
- Author test suites at a professional standard and keep them maintained

AI Coding for Security

- Take part in team development workflows that rely on version control and code review

- Set up pipelines for continuous integration and continuous deployment
- Keep watch over running applications with observability and debugging tools
- Use cybersecurity fundamentals and threat modeling methods in your work
- Handle authentication, authorization, and sensitive data in a secure way
- Find the risks particular to AI-powered applications and reduce them

AI Coding for Systems and Architecture

- Use core computer science concepts on development challenges taken from real projects
- Draw on current architecture patterns to design systems that scale
- Handle networks, concurrency, and environments that span several languages
- Put caching, queues, and background processing workflows in place
- Release applications with cloud infrastructure tools
- Improve performance and keep systems reliable

AI Coding Capstone

- Plan a complete application build and carry it out from concept through deployment
- Work with advanced tools and workflows for AI-assisted development
- Build AI-powered features into applications meant for real use
- Run testing and reviews that confirm production readiness
- Explain technical work clearly by means of demos and documentation
- Ready a portfolio project to accompany your job applications